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Notice of Allowability

Application No.

10/775,592

Examiner

Kevin Wyatt

Applicant(s)

PARK ET AL.

Art Unit

2878

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Amendment after non-final filed 03/15/2007.
2. ☒ The allowed claim(s) is/are 1-5, 8-12, 14-22 and 30-38.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material

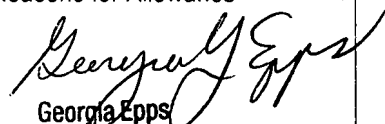
5. ☐ Notice of Informal Patent Application

6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____


Georgia Epps
Supervisory Patent Examiner
Technology Center 2800

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jim Scheller on 04/18/2007.

2. Replace claim 1 with the following:

--A photodetecting array comprising: a plurality of detecting cells laid out in an array on a substrate, comprising rows and columns of detecting cells; a plurality of gate lines, wherein each of the gate lines are coupled to a different row of more than two detecting cells; a plurality of data lines, wherein each of the data lines are coupled to a different column of more than two detecting cells; a mesh of bias voltage lines, comprising a plurality of additional bias voltage lines and a plurality of main bias voltage lines to reduce capacitive coupling, wherein each of the additional bias voltage lines are coupled between at least a pair of main bias lines; wherein each of the main bias voltage lines are coupled to a different row of more than two detecting cells; and wherein the gate lines and main bias voltage lines are laid out in a plurality of rows and the data lines and additional bias voltage lines are laid out in a plurality of columns.--.

Allowable Subject Matter

2. Claims 1-5, 8-12, 14-22 and 30-38 are allowed.

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3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art fails to disclose or make obvious a photodetecting array comprising, in addition to the other recited features of the claim, "a mesh of bias voltage lines, comprising a plurality of additional bias voltage lines and a plurality of main bias voltage lines to reduce capacitive coupling, wherein each of the additional bias voltage lines are coupled between at least a pair of main bias lines."

Regarding claim 11, the prior art fails to disclose or make obvious a photodetecting device comprising, in addition to the other recited features of the claim, "a mesh of bias voltage lines, comprising additional bias voltage lines and main bias voltage lines, wherein each of the additional bias voltage lines are coupled between at least a pair of main bias voltage lines; wherein the capacitive coupling between the mesh of bias voltage lines and the data lines is substantially limited to the capacitive coupling between the third additional bias voltage line and first data line."

Regarding claims 20 and 22, the prior art fails to disclose or make obvious a photodetecting array or method for manufacturing a photodetecting array comprising, in addition to the other recited limitations or steps of the claim, "wherein each of the additional bias voltage lines are coupled between at least a pair of main bias voltage lines, and wherein the capacitive coupling between the bias voltage lines and the data lines is proportional to the total length of the second additional bias voltage lines."

Regarding claim 38, the prior art fails to disclose or make obvious a photodetecting array comprising, in addition to the other recited features of the claim, "a mesh of bias voltage lines, comprising additional bias lines and main bias lines, wherein

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each of the additional bias lines are coupled between at least a pair of main bias lines; the mesh having a means for limiting the capacitive coupling between the bias voltage lines and the data lines."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Wyatt whose telephone number is (571)-272-5974. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on (571)-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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K.W.

A handwritten signature in cursive script, appearing to be 'Georgia Epps', located in the lower right quadrant of the page.

Georgia Epps
Supervisory Patent Examiner
Technology Center 2800